

RECLAMATION ESTIMATE

Cotter Corporation

Papoose Mine

M/037/084 (ML45609)

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San Juan County

Prepared by Utah State Division of Oil, Gas & Mining

Details of Final Reclamation

- This project is located on lands administered by SITLA
- The pit highwalls (20 ft vertical height) will be backfilled to a slope of 45 degrees or less
- Salvaged topsoil will be replaced to a depth of 12 inches in "islands"
- ASSUME the topsoil will cover 50% of the site at 12 inch depth
- The seedbed will be harrowed or disked to loosen the soils before seeding
- The topsoil "islands" will be fertilized, broadcast seeded and then harrowed or raked
- All structures and debris will be removed from the site at the end of operations
- Disturbed areas measured off Exhibit B: pit 15 acres, access road 0.5 acres, and
- building/stockpile 3.5 acre,
- Disturbed areas which do not receive topsoil or fines will not be fertilized & seeded
- The crushing & stockpile area will be moved within the pit area as the mine expands
- Estimated total disturbed area for the Papoose Mine site = 20.0

Activity	Quantity	Units	\$/unit	\$
Removal of structures & debris	1	sum	500.00	500
Backfill against pit highwalls (4,800LF)	47,040	CY	0.33	15,523
Spreading reject fines(2000 CY assumed)	2,000	CY	0.44	880
Regrading/ripping access road	0.5	acre	533	267
Culvert removal	2.0	each	260	520
Spreading topsoil(assume 50% total area vol)	16,133	CY	0.44	7,099
Disking topsoil(assume 50% of total area)	10.0	acre	50	500
Applying fertilizer	10.0	acre	130	1,300
Broadcast seeding	10.0	acre	413	4,130
Raking seed in	10.0	acre	40	400
General site cleanup & trash removal	20.0	acre	100	2,000
Mobilization	2.0	equip	1000	2,000
	Subtotal			35,118
10% Contingency				3,512
	Subtotal			\$38,630
Supervision at 8% of subtotal				3,090
	Subtotal			\$41,721
Escalate for 5 years at 2.68%/yr				5,898
	Total			\$47,619
	Rounded surety amount in yr 2000-\$			\$47,600

Papoose Mine

Average cost per acre =

\$2,380